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 Publisher: ACM  
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 Bibliometrics: Downloads (6 Weeks): 755, Downloads (12 Months): 2657, Cita

2 [Integrating parallel file systems with object-based storage devices](#)  
 Ananth Devulapalli, Dennis Dalessandro, Pete Wyckoff, Nawab Ali, P. Sada  
 November 2007 SC '07: Proceedings of the 2007 ACM/IEEE conference on S  
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As storage systems evolve, the block-based design of today's disks is br  
 alternative, object-based storage devices (OSDs) offer a view where the  
 keeps track of various attributes about data objects. ...

3 [Toward a threat model for storage systems](#)  
 Ragib Hasan, Suvda Myagmar, Adam J. Lee, William Yurcik  
 November 2005 StorageSS '05: Proceedings of the 2005 ACM workshop or  
 survivability  
 Publisher: ACM  
 Full text available: Pdf (258.24 KB) Additional Information: [full citation](#), [abstract](#) ,  
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The growing number of storage security breaches as well as the need to  
 regulations is driving the need for greater storage protection. However,  
 comprehensive process to designing storage protection solutions. ...

Keyw ord s: security, storage system, threat model

4 [The Emergence of iSCSI](#)  
 Jeffrey S. Goldner  
 June 2003 Queue , Volume 1 Issue 4  
 Publisher: ACM  
 Full text available: Html (34.12 KB) Additional Information: [full citation](#), [abstract](#) ,  
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When most IT pros think of SCSI, images of fat cables with many fragile that's one manifestation the oldest one. But modern SCSI, as defined by or SAM, really considers the cable and physical interconnections ...


Keywords: Cable, SAM, data, i/o, iSCSI, scsi

5 [VirtualBox: bits and bytes masquerading as machines](#)

Jon Watson

February 2008 Linux Journal , Volume 2008 Issue 166

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [HTML](#) (19.66 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 478, Citation


Reconfiguring your existing system to do something new is painful. Usir

6 [Kernel korner: Improving server performance](#)

Chen Chen, David Griego

January 2002 Linux Journal , Volume 2002 Issue 93


Publisher: Specialized Systems Consultants, Inc.

Full text available:  [HTML](#) (13.31 KB)

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7 [RiceNIC: a reconfigurable network interface for experimental research](#)

 Jeffrey Shafer, Scott Rixner

June 2007 ExpCS '07: Proceedings of the 2007 workshop on Experiments

Publisher: ACM

Full text available:  [PDF](#) (321.36 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 73, Citation

The evaluation of new network server architectures is usually performed simulator or a hardware prototype. Accurate simulation of the hardware network subsystem is challenging due to the interactions ...


Keywords: FPGA prototyping, ethernet, network interface cards

8 [Kernel korner: ATA over ethernet: putting hard drives on the lan](#)

Ed L. Cashin

June 2005 Linux Journal , Volume 2005 Issue 134

Publisher: Specialized Systems Consultants, Inc.


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Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 25, Citation

2


9 [Exploiting task-level concurrency in a programmable network interface](#)

 Hyong-young Kim, Vijay S. Pai, Scott Rixner

June 2003 PPOPP '03: Proceedings of the ninth ACM SIGPLAN symposium

parallel programming

Publisher: ACM

Full text available:  Pdf (191.35 KB)

Additional Information: full citation, abstract,


Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 44, Citation (

Programmable network interfaces provide the potential to extend the fu  
but lead to instruction processing overheads when compared to applicat  
This paper aims to offset those performance disadvantages ...

Keywords: ethernet, firmware, parallel programming, programmable n


Also published in:

October 2003 SIGPLAN Notices Volume 38 Issue 10

10 [A nine year study of file system and storage benchmarking](#) Avishay Traeger, Erez Zadok, Nikolai Joukov, Charles P. Wright

May 2008 Transactions on Storage (TOS) . Volume 4 Issue 2

Publisher: ACM


Full text available:  Pdf (609.71 KB)

Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 117, Downloads (12 Months): 841, Citati


Benchmarking is critical when evaluating performance, but is especially  
systems. Complex interactions between I/O devices, caches, kernel dae  
result in behavior that is rather difficult to analyze. ...

Keywords: Benchmarks, file systems, storage systems

11 [miNI: reducing network interface memory requirements with dynamic](#) Reza Azimi, Angelos Bilas

June 2003 ICS '03: Proceedings of the 17th annual international conferen

Publisher: ACM


Full text available:  Pdf (289.75 KB)

Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 25, Citation (

Recent work in low-latency, high-bandwidth communication systems ha  
Network Interface Controllers (NICs) and communication abstractions th  
the NIC to applications virtual memory to avoid ...

Keywords: parallel architectures, system area networks

12 [Spinach: a liberty-based simulator for programmable network interfa](#) Paul Willmann, Michael Broglioli, Vijay S. PaiJuly 2004 LCTES '04: Proceedings of the 2004 ACM SIGPLAN/SIGBED co  
compilers, and tools for embedded systems

Publisher: ACM

Full text available:  Pdf (336.99 KB)

Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 18, Citation (

This paper presents Spinach, a new simulator toolset specifically design network interface architectures. Spinach models both system componer programmable environments (e.g., ALUs, control and data paths, ...

**Keyw ords:** embedded systems, programmable network interfaces, sim

Also published in:


July 2004 SIGPLAN Notices Volume 39 Issue 7

### 13 Optimization and bottleneck analysis of network block I/O in commo

 Manolis Marazakis, Vassilis Papaefstathiou, Angelos Bilas

June 2007 ICS '07: Proceedings of the 21st annual international conferen

Publisher: ACM

Full text available:  Pdf (442.79 KB)


Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 127, Citatio

Building commodity networked storage systems is an important architec hosting a moderate number of consumer-grade disks and interconnecte network are an attractive option for improving storage system ...


**Keyw ords:** I/O performance optimization, RDMA, block-level I/O, comr

### 14 High-performance ethernet-based communications for future multi-cr

 Michael Schliensker, Nagabhushan Chittur, Erwin Cserti, Paul M. Stillwell, Jr, Richard J. Carter, Jayaram Mudigonda, Nathan Binkert, Norman P. Jouppi

November 2007 SC '07: Proceedings of the 2007 ACM/IEEE conference on S

Publisher: ACM


Full text available:  Pdf (540.15 KB)

Additional Information: full citation, abstract, .



Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 205, Citatio

Data centers and HPC clusters often incorporate specialized networking requirements. However, Ethernet's low cost and high performance are c fabrics toward standard Ethernet. Although Ethernet's ...

### 15 Transport protocols for high performance

 Aaron Falk, Ted Faber, Joseph Bannister, Andrew Chien, Robert Grossman, November 2003 Communications of the ACM , Volume 46 Issue 11


Publisher: ACM

Full text available:  Html (34.05 KB),  Pdf (367.36 KB) Additional Information: full citat  
terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 125, Citatio

The Explicit Control Protocol and other new congestion-control systems performance over a range of network infrastructure, including extremel links. What then is next for TCP and other established ...

### 16 Storage Systems: Not Just a Bunch of Disks Anymore

 June 2003 Queue , Volume 1 Issue 4

Publisher: ACM


Full text available:

Additional Information:

[HTML \(31.84 KB\)](#), [PDF \(1.29 MB\)](#)
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Bibliometrics: Downloads (6 Weeks): 196, Downloads (12 Months): 330, Citations: 0

### 17 [MemX: supporting large memory workloads in Xen virtual machines](#)

 Michael R. Hines, Kartik Gopalan

November 2007 VTDC '07: Proceedings of the 3rd international workshop on distributed computing

Publisher: ACM

 Full text available: [PDF \(444.25 KB\)](#)

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Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 40, Citations: 0

Modern grid computing and enterprise applications increasingly execute machines (VMs) to partition hardware resources and improve utilization tend to have memory and I/O intensive workloads, ...

### 18 [An efficient system-on-a-chip design methodology for networking applications](#)

 Valentina Salapura, Christos J. Georgiou, Indira Nair

September 2004 CASES '04: Proceedings of the 2004 international conference on design, analysis, and synthesis for embedded systems

Publisher: ACM

 Full text available: [PDF \(184.23 KB\)](#)


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Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 52, Citations: 0

This paper presents a System-on-a-Chip design methodology that uses building block for the development of chips for networking applications. is a self-contained macro that functions as an accelerator ...

Keywords: network processor, system-on-a-chip

### 19 [FAB: building distributed enterprise disk arrays from commodity components](#)

 Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence

December 2004 ASPLOS-XI: Proceedings of the 11th international conference on programming languages and operating systems

Publisher: ACM

 Full text available: [PDF \(671.67 KB\)](#)

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Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 117, Citations: 0

This paper describes the design, implementation, and evaluation of a Fe distributed disk array that provides the reliability of traditional enterprise better scalability. FAB is built from a ...

Keywords: consensus, disk array, erasure coding, replication, storage,

Also published in:

November 2004 SIGPLAN Notices

Volume 39 Issue 11

December 2004 SIGOPS Operating Systems Review

Volume 38 Issue 5

December 2004 SIGARCH Computer Architecture News


Volume 32 Issue 5

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Linux Journal Staff

May 2007 Linux Journal , Volume 2007 Issue 157

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